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Histopathological Changes On Adrenal Gland Of Albino Rat Due To Ethonolic Effect Of *Tridax Procumbens* Weed

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Exposure of toxicants manifests variety of pathological lesions in various organs depending upon its dose and the period of treatment. Weeds have remarkable capacity to germinate under varied conditions. *Tridax procumbens* is also one of the known weed of India, posses many ethanobotanical & medicinal value. Adrenal glands are essential for our everyday health. They produce hormones that help our body to regulate sugar, B.P etc. An ethanolic extract of the *Tridax procumbens* was administered orally for 7, 14 & 21 days chronically at doses of 300 and 600mg/kg.bwt of Sprague dawley rats. The highest dose level tested caused a significant increase of wet weight of adrenal gland along with some histopathological changes in cortex & medullary region of adrenal. The aim of this study was to demonstrate the structural changes in the adrenal cortex that involve disarrangement of cells and modification in thickness of the different layers of the adrenal gland. The adrenal medulla in the rat has been considered to have little proliferative activity.

Keywords: *Tridax procumbens*, Sprague dawley rat, Adrenal cortex, wet- weight.